

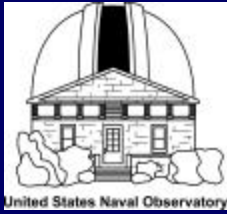


Fame Input Catalog: Brief Status Report

Sean E. Urban

MO & DA Quarterly Meeting

July 24, 2001



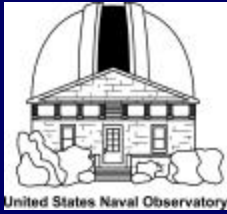
Overview

- Why is it needed?
 - Windowing the Data
 - Correct gain settings
 - Simulators
- Input Catalog vs. On-board Catalog



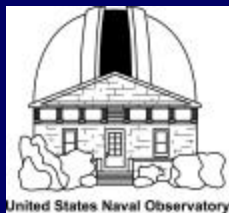
Data Required

- All stars to be observed
- Positional Accuracies
 - 100 mas continuously (1 sigma); p.m. required
- Magnitude accuracy
 - About 1.5 mags



Where to get the data?

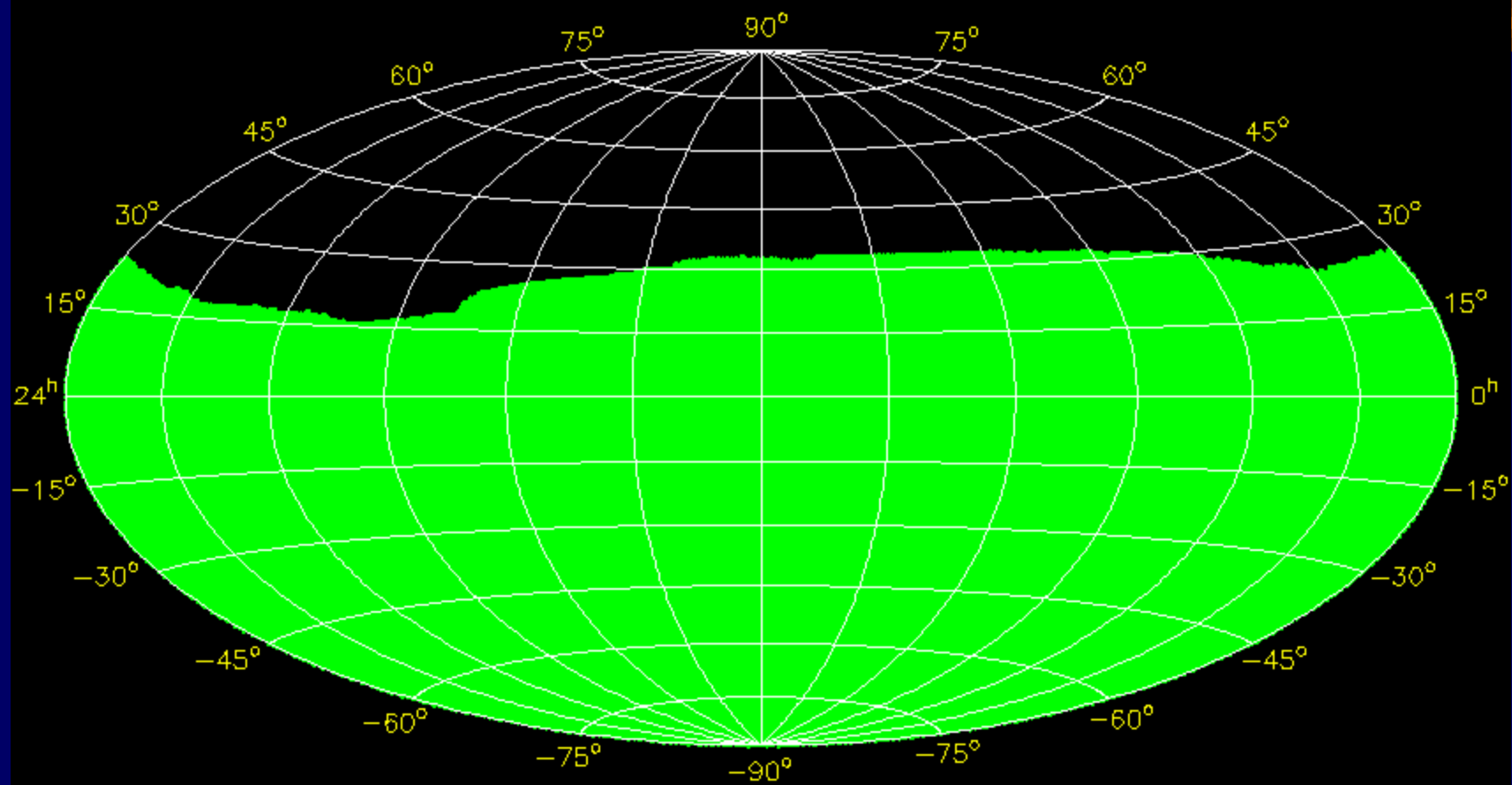
- Data currently available do not meet the requirements
 - Requires new, late epoch observations (UCAC)
- Stars brighter than 12.5
 - UCAC + Tycho-2 input catalogs
- Stars fainter than 12.5
 - UCAC + PMM catalogs

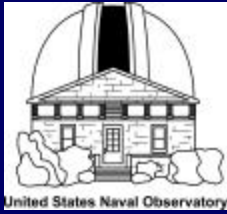


UCAC Observations

- Magnitude range 7.2 to 16.0, global (80 million stars)
- Photometry single band (579-643 nm) to 0.3 magnitudes
- Currently observing from CTIO
- Telescope to move in Oct. 2001
- Complete Northern area by end 2003(?)

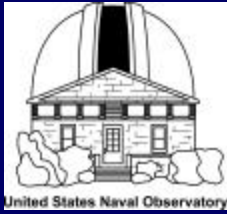
UCAC: 60952 survey fields completed as of July 16, 2001





UCAC Astrometry

- Proper motions using Tycho-2, AC, AGK2, SPM, NPM, A2 (B?)
- Positions good to 20 – 70 mas
- Proper motions 1 to 10 mas/yr



Simulator catalogs

- Large FIC (40 million stars)
 - FIFO Overflow problem
 - Limitations on observing sequence
 - Need for culling
 - Prepare new, more uniformly distributed one
- Grid catalog